RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/155,574D

Source: IFW516

Date Processed by STIC: 6/2/05

ENTERED

```
     RAW SEQUENCE LISTING              DATE: 06/02/2005
     PATENT APPLICATION:  US/09/155,514D     TIME: 09:04:16

     Input Set : A:\1102-98.txt
     Output Set: N:\CRF4\06022005\I155514D.raw

  4 <110> APPLICANT: Kainoh, Mie
  5        Tanaka, Toshiaki
  7 <120> TITLE OF INVENTION: Chimeric Proteins, their Heterodimer
  8        Complexes, and Platelet Substitutes
 12 <130> FILE REFERENCE: 1102-98
 14 <140> CURRENT APPLICATION NUMBER: 09/155,514D
 15 <141> CURRENT FILING DATE: 1998-11-17
 17 <150> PRIOR APPLICATION NUMBER: WO PCT/JP98/00370
 18 <151> PRIOR FILING DATE: 1998-01-29
 20 <150> PRIOR APPLICATION NUMBER: JP 9-15118
 21 <151> PRIOR FILING DATE: 1997-01-29
 23 <150> PRIOR APPLICATION NUMBER: JP-9-234544
 24 <151> PRIOR FILING DATE: 1997-08-29
 26 <160> NUMBER OF SEQ ID NOS: 34
 28 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 30 <210> SEQ ID NO: 1
 31 <211> LENGTH: 4228
 32 <212> TYPE: DNA
 33 <213> ORGANISM: Artificial Sequence
 35 <220> FEATURE:
 36 <223> OTHER INFORMATION: sequence encoding fusion protein
W--> 38 <221> NAME/KEY: CDS
 39 <222> LOCATION: (1)...(2958)
W--> 41 <221> CDS
 42 <222> LOCATION: (3316)...(3360)
W--> 44 <221> CDS
 45 <222> LOCATION: (3480)...(3808)
W--> 47 <221> CDS
 48 <222> LOCATION: (3904)...(4228)
W--> 50 <400> 1
 51 atg ttc ccc acc gag agc gca tgg ctt ggg aag cga ggc gcg aac ccg    48
 52 Met Phe Pro Thr Glu Ser Ala Trp Leu Gly Lys Arg Gly Ala Asn Pro
 53  1               5                  10                  15
 55 ggc ccc gaa gct gca ctc cgg gag acg gtg atg ctg ttg ctg tgc ctg    96
 56 Gly Pro Glu Ala Ala Leu Arg Glu Thr Val Met Leu Leu Leu Cys Leu
 57             20                  25                  30
 59 ggg gtc ccg acc ggc agg cct tac aac gtg gac act gag agc gcg ctg   144
 60 Gly Val Pro Thr Gly Arg Pro Tyr Asn Val Asp Thr Glu Ser Ala Leu
 61          35                  40                  45
 63 ctt tac cag ggc ccc cac aac acg ctg ttc ggc tac tcg gtc gtg ctg   192
 64 Leu Tyr Gln Gly Pro His Asn Thr Leu Phe Gly Tyr Ser Val Val Leu
 65       50                  55                  60
 67 cac agc cac ggg gcg aac cga tgg ctc cta gtg ggt gcg ccc act gcc   240
```

```
68  His Ser His Gly Ala Asn Arg Trp Leu Leu Val Gly Ala Pro Thr Ala
69   65                  70              75                  80
71  aac tgg ctc gcc aac gct tca gtg atc aat ccc ggg gcg att tac aga   288
72  Asn Trp Leu Ala Asn Ala Ser Val Ile Asn Pro Gly Ala Ile Tyr Arg
73                  85                  90                  95
75  tgc agg atc gga aag aat ccc ggc cag acg tgc gaa cag ctc cag ctg   336
76  Cys Arg Ile Gly Lys Asn Pro Gly Gln Thr Cys Glu Gln Leu Gln Leu
77                 100                 105                 110
79  ggt agc cct aat gga gaa cct tgt gga aag act tgt ttg gaa gag aga   384
80  Gly Ser Pro Asn Gly Glu Pro Cys Gly Lys Thr Cys Leu Glu Glu Arg
81             115                 120                 125
83  gac aat cag tgg ttg ggg gtc aca ctt tcc aga cag cca gga gaa aat   432
84  Asp Asn Gln Trp Leu Gly Val Thr Leu Ser Arg Gln Pro Gly Glu Asn
85         130                 135                 140
87  gga tcc atc gtg act tgt ggg cat aga tgg aaa aat ata ttt tac ata   480
88  Gly Ser Ile Val Thr Cys Gly His Arg Trp Lys Asn Ile Phe Tyr Ile
89  145                 150                 155                 160
91  aag aat gaa aat aag ctc ccc act ggt ggt tgc tat gga gtg ccc cct   528
92  Lys Asn Glu Asn Lys Leu Pro Thr Gly Gly Cys Tyr Gly Val Pro Pro
93                 165                 170                 175
95  gat tta cga aca gaa ctg agt aaa aga ata gct ccg tgt tat caa gat   576
96  Asp Leu Arg Thr Glu Leu Ser Lys Arg Ile Ala Pro Cys Tyr Gln Asp
97                 180                 185                 190
99  tat gtg aaa aaa ttt gga gaa aat ttt gca tca tgt caa gct gga ata   624
100 Tyr Val Lys Lys Phe Gly Glu Asn Phe Ala Ser Cys Gln Ala Gly Ile
101             195                 200                 205
103 tcc agt ttt tac aca aag gat tta att gtg atg ggg gcc cca gga tca   672
104 Ser Ser Phe Tyr Thr Lys Asp Leu Ile Val Met Gly Ala Pro Gly Ser
105         210                 215                 220
107 tct tac tgg act ggc tct ctt ttt gtc tac aat ata act aca aat aaa   720
108 Ser Tyr Trp Thr Gly Ser Leu Phe Val Tyr Asn Ile Thr Thr Asn Lys
109 225                 230                 235                 240
111 tac aag gct ttt tta gac aaa caa aat caa gta aaa ttt gga agt tat   768
112 Tyr Lys Ala Phe Leu Asp Lys Gln Asn Gln Val Lys Phe Gly Ser Tyr
113             245                 250                 255
115 tta gga tat tca gtc gga gct ggt cat ttt cgg agc cag cat act acc   816
116 Leu Gly Tyr Ser Val Gly Ala Gly His Phe Arg Ser Gln His Thr Thr
117         260                 265                 270
119 gaa gta gtc gga gga gct cct caa cat gag cag att ggt aag gca tat   864
120 Glu Val Val Gly Gly Ala Pro Gln His Glu Gln Ile Gly Lys Ala Tyr
121         275                 280                 285
123 ata ttc agc att gat gaa aaa gaa cta aat atc tta cat gaa atg aaa   912
124 Ile Phe Ser Ile Asp Glu Lys Glu Leu Asn Ile Leu His Glu Met Lys
125     290                 295                 300
127 ggt aaa aag ctt gga tcg tac ttt gga gct tct gtc tgt gct gtg gac   960
128 Gly Lys Lys Leu Gly Ser Tyr Phe Gly Ala Ser Val Cys Ala Val Asp
129 305                 310                 315                 320
131 ctc aat gca gat ggc ttc tca gat ctg ctc gtg gga gca ccc atg cag  1008
132 Leu Asn Ala Asp Gly Phe Ser Asp Leu Leu Val Gly Ala Pro Met Gln
```

RAW SEQUENCE LISTING   DATE: 06/02/2005
PATENT APPLICATION: US/09/155,514D   TIME: 09:04:16

Input Set : A:\1102-98.txt
Output Set: N:\CRF4\06022005\I155514D.raw

```
133                  325                 330                 335
135 agc acc atc aga gag gaa gga aga gtg ttt gtg tac atc aac tct ggc   1056
136 Ser Thr Ile Arg Glu Glu Gly Arg Val Phe Val Tyr Ile Asn Ser Gly
137             340                 345                 350
139 tcg gga gca gta atg aat gca atg gaa aca aac ctc gtt gga agt gac   1104
140 Ser Gly Ala Val Met Asn Ala Met Glu Thr Asn Leu Val Gly Ser Asp
141         355                 360                 365
143 aaa tat gct gca aga ttt ggg gaa tct ata gtt aat ctt ggc gac att   1152
144 Lys Tyr Ala Ala Arg Phe Gly Glu Ser Ile Val Asn Leu Gly Asp Ile
145     370                 375                 380
147 gac aat gat ggc ttt gaa gat gtt gct atc gga gct cca caa gaa gat   1200
148 Asp Asn Asp Gly Phe Glu Asp Val Ala Ile Gly Ala Pro Gln Glu Asp
149 385                 390                 395                 400
151 gac ttg caa ggt gct att tat att tac aat ggc cgt gca gat ggg atc   1248
152 Asp Leu Gln Gly Ala Ile Tyr Ile Tyr Asn Gly Arg Ala Asp Gly Ile
153             405                 410                 415
155 tcg tca acc ttc tca cag aga att gaa gga ctt cag atc agc aaa tcg   1296
156 Ser Ser Thr Phe Ser Gln Arg Ile Glu Gly Leu Gln Ile Ser Lys Ser
157             420                 425                 430
159 tta agt atg ttt gga cag tct ata tca gga caa att gat gca gat aat   1344
160 Leu Ser Met Phe Gly Gln Ser Ile Ser Gly Gln Ile Asp Ala Asp Asn
161         435                 440                 445
163 aat ggc tat gta gat gta gca gtt ggt gct ttt cgg tct gat tct gct   1392
164 Asn Gly Tyr Val Asp Val Ala Val Gly Ala Phe Arg Ser Asp Ser Ala
165     450                 455                 460
167 gtc ttg cta agg aca aga cct gta gta att gtt gac gct tct tta agc   1440
168 Val Leu Leu Arg Thr Arg Pro Val Val Ile Val Asp Ala Ser Leu Ser
169 465                 470                 475                 480
171 cac cct gag tca gta aat aga acg aaa ttt gac tgt gtt gaa aat gga   1488
172 His Pro Glu Ser Val Asn Arg Thr Lys Phe Asp Cys Val Glu Asn Gly
173             485                 490                 495
175 tgg cct tct gtg tgc ata gat cta aca ctt tgt ttc tca tat aag ggc   1536
176 Trp Pro Ser Val Cys Ile Asp Leu Thr Leu Cys Phe Ser Tyr Lys Gly
177             500                 505                 510
179 aag gaa gtt cca ggt tac att gtt ttg ttt tat aac atg agt ttg gat   1584
180 Lys Glu Val Pro Gly Tyr Ile Val Leu Phe Tyr Asn Met Ser Leu Asp
181         515                 520                 525
183 gtg aac aga aag gca gag tct cca cca aga ttc tat ttc tct tct aat   1632
184 Val Asn Arg Lys Ala Glu Ser Pro Pro Arg Phe Tyr Phe Ser Ser Asn
185     530                 535                 540
187 gga act tct gac gtg att aca gga agc ata cag gtg tcc agc aga gaa   1680
188 Gly Thr Ser Asp Val Ile Thr Gly Ser Ile Gln Val Ser Ser Arg Glu
189 545                 550                 555                 560
191 gct aac tgt aga aca cat caa gca ttt atg cgg aaa gat gtg cgg gac   1728
192 Ala Asn Cys Arg Thr His Gln Ala Phe Met Arg Lys Asp Val Arg Asp
193             565                 570                 575
195 atc ctc acc cca att cag att gaa gct gct tac cac ctt ggt cct cat   1776
196 Ile Leu Thr Pro Ile Gln Ile Glu Ala Ala Tyr His Leu Gly Pro His
197         580                 585                 590
```

```
199 gtc atc agt aaa cga agt aca gag gaa ttc cca cca ctt cag cca att   1824
200 Val Ile Ser Lys Arg Ser Thr Glu Glu Phe Pro Pro Leu Gln Pro Ile
201         595                 600                 605
203 ctt cag cag aag aaa gaa aaa gac ata atg aaa aaa aca ata aac ttt   1872
204 Leu Gln Gln Lys Lys Glu Lys Asp Ile Met Lys Lys Thr Ile Asn Phe
205         610                 615                 620
207 gca agg ttt tgt gcc cat gaa aat tgt tct gct gat tta cag gtt tct   1920
208 Ala Arg Phe Cys Ala His Glu Asn Cys Ser Ala Asp Leu Gln Val Ser
209 625                 630                 635                 640
211 gca aag att ggg ttt ttg aag ccc cat gaa aat aaa aca tat ctt gct   1968
212 Ala Lys Ile Gly Phe Leu Lys Pro His Glu Asn Lys Thr Tyr Leu Ala
213                 645                 650                 655
215 gtt ggg agt atg aag aca ttg atg ttg aat gtg tcc ttg ttt aat gct   2016
216 Val Gly Ser Met Lys Thr Leu Met Leu Asn Val Ser Leu Phe Asn Ala
217                 660                 665                 670
219 gga gat gat gca tat gaa acg act cta cat gtc aaa cta ccc gtg ggt   2064
220 Gly Asp Asp Ala Tyr Glu Thr Thr Leu His Val Lys Leu Pro Val Gly
221         675                 680                 685
223 ctt tat ttc att aag att tta gag ctg gaa gag aag caa ata aac tgt   2112
224 Leu Tyr Phe Ile Lys Ile Leu Glu Leu Glu Glu Lys Gln Ile Asn Cys
225         690                 695                 700
227 gaa gtc aca gat aac tct ggc gtg gta caa ctt gac tgc agt att ggc   2160
228 Glu Val Thr Asp Asn Ser Gly Val Val Gln Leu Asp Cys Ser Ile Gly
229 705                 710                 715                 720
231 tat ata tat gta gat cat ctc tca agg ata gat att agc ttt ctc ctg   2208
232 Tyr Ile Tyr Val Asp His Leu Ser Arg Ile Asp Ile Ser Phe Leu Leu
233                 725                 730                 735
235 gat gtg agc tca ctc agc aga gcg gaa gag gac ctc agt atc aca gtg   2256
236 Asp Val Ser Ser Leu Ser Arg Ala Glu Glu Asp Leu Ser Ile Thr Val
237                 740                 745                 750
239 cat gct acc tgt gaa aat gaa gag gaa atg gac aat cta aag cac agc   2304
240 His Ala Thr Cys Glu Asn Glu Glu Glu Met Asp Asn Leu Lys His Ser
241         755                 760                 765
243 aga gtg act gta gca ata cct tta aaa tat gag gtt aag ctg act gtt   2352
244 Arg Val Thr Val Ala Ile Pro Leu Lys Tyr Glu Val Lys Leu Thr Val
245         770                 775                 780
247 cat ggg ttt gta aac cca act tca ttt gtg tat gga tca aat gat gaa   2400
248 His Gly Phe Val Asn Pro Thr Ser Phe Val Tyr Gly Ser Asn Asp Glu
249 785                 790                 795                 800
251 aat gag cct gaa acg tgc atg gtg gag aaa atg aac tta act ttc cat   2448
252 Asn Glu Pro Glu Thr Cys Met Val Glu Lys Met Asn Leu Thr Phe His
253                 805                 810                 815
255 gtt atc aac act ggc aat agt atg gct ccc aat gtt agt gtg gaa ata   2496
256 Val Ile Asn Thr Gly Asn Ser Met Ala Pro Asn Val Ser Val Glu Ile
257                 820                 825                 830
259 atg gta cca aat tct ttt agc ccc caa act gat aag ctg ttc aac att   2544
260 Met Val Pro Asn Ser Phe Ser Pro Gln Thr Asp Lys Leu Phe Asn Ile
261                 835                 840                 845
263 ttg gat gtc cag act act act gga gaa tgc cac ttt gaa aat tat caa   2592
```

RAW SEQUENCE LISTING   DATE: 06/02/2005
PATENT APPLICATION: **US/09/155,514D**   TIME: 09:04:16

Input Set : **A:\1102-98.txt**
Output Set: **N:\CRF4\06022005\I155514D.raw**

```
264 Leu Asp Val Gln Thr Thr Thr Gly Glu Cys His Phe Glu Asn Tyr Gln
265     850             855             860
267 aga gtg tgt gca tta gag cag caa aag agt gca atg cag acc ttg aaa   2640
268 Arg Val Cys Ala Leu Glu Gln Gln Lys Ser Ala Met Gln Thr Leu Lys
269 865             870             875             880
271 ggc ata gtc cgg ttc ttg tcc aag act gat aag agg cta ttg tac tgc   2688
272 Gly Ile Val Arg Phe Leu Ser Lys Thr Asp Lys Arg Leu Leu Tyr Cys
273             885             890             895
275 ata aaa gct gat cca cat tgt tta aat ttc ttg tgt aat ttt ggg aaa   2736
276 Ile Lys Ala Asp Pro His Cys Leu Asn Phe Leu Cys Asn Phe Gly Lys
277             900             905             910
279 atg gaa agt gga aaa gaa gcc agt gtt cat atc caa ctg gaa ggc cgg   2784
280 Met Glu Ser Gly Lys Glu Ala Ser Val His Ile Gln Leu Glu Gly Arg
281         915             920             925
283 cca tcc att tta gaa atg gat gag act tca gca ctc aag ttt gaa ata   2832
284 Pro Ser Ile Leu Glu Met Asp Glu Thr Ser Ala Leu Lys Phe Glu Ile
285     930             935             940
287 aga gca aca ggt ttt cca gag cca aat cca aga gta att gaa cta aac   2880
288 Arg Ala Thr Gly Phe Pro Glu Pro Asn Pro Arg Val Ile Glu Leu Asn
289 945             950             955             960
291 aag gat gag aat gtt gcg cat gtt cta ctg gaa gga cta cat cat caa   2928
292 Lys Asp Glu Asn Val Ala His Val Leu Leu Glu Gly Leu His His Gln
293             965             970             975
295 aga ccc aaa cgt tat ttc acg gat ccc gag ctgctggaag caggctcagc   2978
296 Arg Pro Lys Arg Tyr Phe Thr Asp Pro Glu
297             980             985
299 gctcctgcct ggacgcatcc cggctatgca gccccagtcc agggcagcaa ggcaggcccc 3038
300 gtctgcctct tcacccggag cctctgcccg ccccactcat gctcagggag agggtcttct 3098
301 ggctttttcc caggctctgg gcaggcacag gctaggtgcc cctaacccag ccctgcaca  3158
302 caaagggca ggtgctgggc tcagacctgc caagagccat atccgggagg accctgcccc  3218
303 tgacctaagc ccacccccaaa ggccaaactc tccactccct cagctcggac accttctctc 3278
304 ctcccagatt ccagtaactc ccaatcttct ctctgca gag ccc aaa tct tgt gac   3333
305                                     Glu Pro Lys Ser Cys Asp
306                                                 990
308 aaa act cac aca tgc cca ccg tgc cca ggtaagccag cccaggcctc         3380
309 Lys Thr His Thr Cys Pro Pro Cys Pro
310         995             1000
312 gccctccagc tcaaggcggg acaggtgccc tagagtagcc tgcatccagg gacaggcccc 3440
313 agccgggtgc tgacacgtcc acctccatct cttcctcag cac ctg aac tcc tgg    3494
314                                             His Leu Asn Ser Trp
315                                                 1005
317 ggg gac cgt cag tct tcc tct tcc ccc caa aac cca agg aca ccc tca   3542
318 Gly Asp Arg Gln Ser Ser Ser Ser Pro Gln Asn Pro Arg Thr Pro Ser
319             1010            1015            1020
321 tga tct ccc gga ccc ctg agg tca cat gcg tgg tgg tgg acg tga gcc   3590
322 *   Ser Pro Gly Pro Leu Arg Ser His Ala Trp Trp Trp Thr *   Ala
323             1025            1030            1035
325 acg aag acc ctg agg tca agt tca act ggt acg tgg acg gcg tgg agg   3638
326 Thr Lys Thr Leu Arg Ser Ser Ser Thr Gly Thr Trp Thr Ala Trp Arg
```

VERIFICATION SUMMARY　　　　　　　　DATE: 06/02/2005
PATENT APPLICATION:　**US/09/155,514D**　　　TIME: 09:04:17

Input Set : **A:\1102-98.txt**
Output Set: **N:\CRF4\06022005\I155514D.raw**

```
L:38  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:41  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:44  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:47  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:50  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:387 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:390 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:393 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:396 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:399 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:855 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:858 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:861 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:864 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:867 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
```